

**WHAT IS CLAIMED IS:**

**1. An electromagnetic pump comprising:**

a cylinder having a closed end and an open end, said closed end being provided with an axial hole, said open end being provided with a connection pipe fastened therewith, said cylinder being provided in an interior with a piston chamber situated between said closed end and said connection pipe;

a magnetic piston disposed slidably in said piston chamber of said cylinder and provided with a first end face and a second end face opposite to said first end face;

10 a first induction coil fitted over one end of said cylinder and provided with a first excitation hole extending along an axial direction thereof, a first power source wire, and a first excitation frame whereby said first excitation frame and said first excitation hole are respectively provided in a corresponding side with a through hole; and

15 a second induction coil fitted over other end of said cylinder and provided with a second excitation hole extending along an axial direction thereof, a second power source wire, and a second excitation frame whereby said second excitation frame and said second excitation hole are respectively provided in a corresponding side with a through hole.

20 2. The pump as recited in claim 1 further comprising a magnetic housing of a u-shaped construction whereby said magnetic housing is provided at two ends with seat to facilitate the joining of said magnetic housing with said closed end and said open end of said cylinder.

25 3. The pump as recited in claim 1, wherein said connection pipe is provided in an outer wall with an annular groove and a washer located in said annular groove whereby said outer wall of said connection pipe comes in contact with said cylinder.